

CLAIMS

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1. A device for implanting into a body vessel in the region of a vessel branching, comprising a radially expandable stent formed as a hollow cylindrical element and provided with an increase radial opening; and a balloon catheter on which said stent is pre-mounted for implanting in the vessel, said balloon catheter having a hollow chamber for passage of a guiding wire so that it exits in a center of said increased opening from said hollow chamber and said stent.

2. A device as defined in claim 1, wherein said balloon catheter is provided with another longitudinal chamber extending along a longitudinal axis of said catheter and formed so that a further guiding wire exits at a tip of said balloon catheter.

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3. A device as defined in claim 2, wherein said stent is dilatable so that after a dilation of said stent, said balloon catheter is pullable along said guiding wires out of the vessel.

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1 4. A device as defined in claim ~~2~~¹, wherein said further guiding
2 wire is guided through said other hollow chamber out of said increased
3 opening.

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1 5. A device as defined in claim ~~4~~³, wherein said balloon
2 catheter has a balloon portion, said other hollow chamber for said further
3 guiding wire guided out of said increased opening being formed by a pipe
4 mounted on an outer surface of said balloon portion of said catheter.

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1 6. A device as defined in claim ~~4~~³, wherein said catheter has a
2 balloon portion which is formed as a double-walled balloon, said other hollow
3 chamber for guiding said further wire from said increase opening being
4 formed as an intermediate chamber of said double-wall balloon.

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7. A device as defined in claim ~~4~~, wherein said balloon catheter has a balloon portion, said other hollow chamber for guiding said further wire out of said increased opening being formed as an intermediate chamber between said balloon portion and a stretchable hose piece which is pulled onto said balloon portion.

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8. A device as defined in claim ~~2~~, wherein said balloon catheter is composed of three coaxial hoses arranged so that two inwardly located hoses form said hollow chambers for receiving said guiding wires.

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9. A device as defined in claim 1, wherein said stent is composed of a pipe and has a multi-cellular wall.

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10. A device as defined in claim 1, wherein said stent is bent from a wire.

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1 11. A device as defined in claim 1, wherein said stent is
2 formed as a wire selected from the group consisting of structured wire,
3 knitted wire and twisted wire.

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1 12. A device as defined in claim 1, wherein said increased
2 opening is arranged in a center of said stent.

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1 13. A device as defined in claim 1, wherein said increased
2 opening is arranged eccentrically on said stent.

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